

## ABSTRACT

5 A polyether ester elastic fiber comprising a polyether ester  
elastomer containing polybutylene terephthalate as a hard segment and  
polyoxyethylene glycol as a soft segment and copolymerized with a specific  
metal organic sulfonate, having a coefficient of moisture absorption of not  
less than 5 % at 35°C and at a RH of 95 % and a coefficient of water  
absorption extension of not less than 10 %. The above-mentioned polyether  
10 ester elastic fiber has a good moisture-absorbing property, and is reversibly  
largely expanded or contracted by the absorption or release of water.  
Therefore, a fabric giving excellent comfortableness can be obtained from  
said elastic fibers, and can be recycled.